

TUM Multi Format Test Set

documentation for sequence

1080i_carving1



General Information

Content

genre	general information
Test shot	Inside a carving shop, tumbling camera

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	550	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
No motion	

Camera Motion

type	speed
Rolling	fast

Colours

main colour	saturated colours
brown	No

Structures

regular structures	details	contrast
No	high	high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

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1080i_carving2



General Information

Content

genre	general information
Test shot	Pan over carved crosses

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	375	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
No motion	

Camera Motion

type	speed
Pan	medium

Colours

main colour	saturated colours
brown	No

Structures

regular structures	details	contrast
No	high	medium

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

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1080i_carving3



General Information

Content

genre **Test shot** general information **Roll over carved crosses**

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	300	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type **No motion** speed

Camera Motion

type **Rolling** speed **medium**

Colours

main colour **brown** saturated colours **No**

Structures

regular structures **No** details **high** contrast **medium**

Recording

Camera

type **HD Video** camera model **HDCAM Sony HDW-F900**

Camera Settings

captured size **1920x1080** frame rate **50i** recorded on **HD Video**

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter **none** manufacturer of upsampling box **None** colour correction **No**

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

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1080i_carving4



General Information

Content

genre	general information
Test shot	Focus change in a shot containing many carved figures

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	329	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
No motion	

Camera Motion

type	speed
No motion	

Colours

main colour	saturated colours
brown	No

Structures

regular structures	details	contrast
No	high	medium

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

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1080i_cc1



General Information

Content

genre	general information
Sports	Start of a cross country race

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	250	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
Regular Non-Rigid-Body motion	fast

Camera Motion

type	speed
No motion	

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
No	high	high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

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1080i_cc2



General Information

Content

genre	general information
Sports	Crowd of people doing cross country skiing

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	300	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
Chaotic Non-Rigid-Body motion	slow

Camera Motion

type	speed
No motion	

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
No	high	high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

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1080i_cc3



General Information

Content

genre	general information
Sports	Crowd of people doing cross country skiing, more close shot than 1080i_cc2

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	275	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
Chaotic Non-Rigid-Body motion	medium

Camera Motion

type	speed
No motion	

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
No	high	high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

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1080i_cc4



General Information

Content

genre	general information
Sports	Cross country skiing filmed out of a car following the track

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	300	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
Regular Non-Rigid-Body motion	fast

Camera Motion

type	speed
Dolly	fast

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
No	medium	very high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_forest1



General Information

Content

genre	general information
Test shot	Forest in winter filmed from a car, sun comes out through the trees

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	349	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
No motion	

Camera Motion

type	speed
Dolly	fast

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
No	high	very high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_soccer1



General Information

Content									
genre		general information							
Sports		Ball on a grass yard, camera goes up, as the player moves, close shot at the beginning, more wide shot towards the end							
Images					Colour Space				
size	frame rate	standard	number of frames	image format	type of colour space	bit depth	black	white	
1920x1080	50i	SMPTE 274M	475	TIFF	RGB	8	16	235	
Object Motion				Camera Motion					
type			speed		type			speed	
Non-Rigid-Body motion			medium		Pan, Tilt			medium	
Colours			Structures						
main colour		saturated colours		regular structures		details		contrast	
		No		No		high		high	

Recording

Camera			Camera Settings			
type		camera model		captured size	frame rate	recorded on
HD Video		HDCAM Sony HDW-F900		1920x1080	50i	HD Video
Compression						
standard	colour space	colour subsampling	compression ratio	bit depth	data rate	
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s	

Post Production

Camera					
upsampling filter		manufacturer of upsampling box		colour correction	
none		None		No	
Additional Compression					
standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_soccer2



General Information

Content

genre	general information
Sports	Camera folling the ball at a cross taken by the goalkeeper

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	375	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
Non-Rigid-Body motion	medium

Camera Motion

type	speed
Pan, Tilt	medium

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
No	high	high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_soccer3



General Information

Content

genre	general information
Sports	Camera behind the goal following one attack

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	325	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
Non-Rigid-Body motion	medium

Camera Motion

type	speed
Boom	fast

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
Yes	high	high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

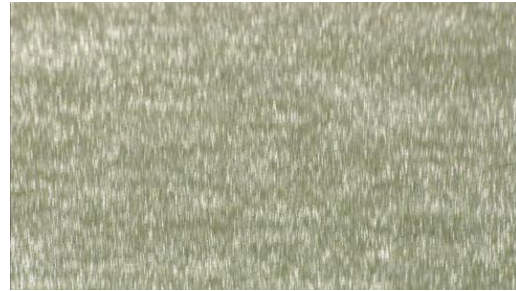
Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_soccer4



General Information

Content

genre	general information
Sports	Tilt over grass yard to some players

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	400	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
Non-Rigid-Body motion	medium

Camera Motion

type	speed
Tilt	medium

Colours

main colour	saturated colours
	No

Structures

regular structures	details	contrast
Yes	high	high

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_tum1



General Information

Content

genre	general information
Test shot	Pan and zoom in over some buildings of Munich university. Contains many fine details and regular structures

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	900	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
No motion	

Camera Motion

type	speed
Pan, Zoom	slow

Colours

main colour	saturated colours
grey	No

Structures

regular structures	details	contrast
Yes	high	low

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_tum2



General Information

Content

genre **general information**
Test shot **Similar to 1080i_tum1, but zoom out and faster.**

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	350	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type	speed
No motion	

Camera Motion

type	speed
Pan, Zoom	medium

Colours

main colour	saturated colours
grey	No

Structures

regular structures	details	contrast
Yes	high	low

Recording

Camera

type	camera model
HD Video	HDCAM Sony HDW-F900

Camera Settings

captured size	frame rate	recorded on
1920x1080	50i	HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter	manufacturer of upsampling box	colour correction
none	None	No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set

documentation for sequence

1080i_tum3



General Information

Content

genre
Test shot

general information
Similar to 1080i_tum1

Images

size	frame rate	standard	number of frames	image format
1920x1080	50i	SMPTE 274M	500	TIFF

Colour Space

type of colour space	bit depth	black	white
RGB	8	16	235

Object Motion

type
No motion

speed

Camera Motion

type
Pan, Zoom

speed
medium

Colours

main colour
grey

saturated colours
No

Structures

regular structures
Yes

details
high

contrast
low

Recording

Camera

type
HD Video

camera model
HDCAM Sony HDW-F900

Camera Settings

captured size
1920x1080

frame rate
50i

recorded on
HD Video

Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
HDCAM	YUV	3:1:1	4,424:1	8	140 Mbit/s

Post Production

Camera

upsampling filter
none

manufacturer of upsampling box
None

colour correction
No

Additional Compression

standard	colour space	colour subsampling	compression ratio	bit depth	data rate
None					

TUM Multi Format Test Set



Contact

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